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013394122 **Image available**

WPI Acc No: 2000-566060/200053

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Positioning drive for fuel injector - has base plate with annular groove in base surface facing second housing section with ring seal on which membrane rests; membrane is retained on base surface by flat element

Patent Assignee: SIEMENS AG (SIEI)

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Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19902260	A1	20000914	DE 1002260	A	19990121	200053 B
DE 19902260	C2	20010125	DE 1002260	A	19990121	200106

Priority Applications (No Type Date): DE 1002260 A 19990121

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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DE 19902260	A1	5		F02M-051/00	
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DE 19902260	C2			F02M-051/00	
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Abstract (Basic): DE 19902260 A

The drive has a piezoelectric actuator (2) with a base plate (24) in a first housing section, a servovalve (3) in a second housing section, a coupling between the base plate and servovalve and a membrane (6) between the base plate and the housing inner wall and between the first and second housing sections to achieve sealed separation of the two sections.

The base plate has an annular groove (243) in the base surface facing the second section with a ring seal (74) on which the membrane rests, whereby the membrane is retained on the base surface by a flat element.

USE - Common rail fuel injection valve.

ADVANTAGE - Actuator is reliably protected against leakage by membrane with long operating life.

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Title Terms: POSITION; DRIVE; FUEL; INJECTOR; BASE; PLATE; ANNULAR; GROOVE; BASE; SURFACE; FACE; SECOND; HOUSING; SECTION; RING; SEAL; MEMBRANE; REST ; MEMBRANE; RETAIN; BASE; SURFACE; FLAT; ELEMENT

Derwent Class: Q53; X22

International Patent Class (Main): F02M-051/00

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